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# Re-vegetation of Oil & Gas Disturbance: Project Overview

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## Project Objectives:

To determine what forages establish, grow, and persist in the conditions the Oil and Gas industry is faced with in the Peace Region. This will be explored for berms with both subsoil and top soil, pipelines, and roadways. The goal is to share these results amongst producers, oil and gas industry, and the government

through field days, our website and facts sheets. The ultimate aim is to communicate our results and work with seed companies, the forage seed industry, the government, and the oil and gas industry in the adoption of these species where appropriate. The initial goal is to get the industry thinking and talking about improving the re-vegetation methods that are in place.



Jennifer Critcher and Julie Robinson, contributors to the project



Initial species seeded, some of which were for species trials and some for demos. Missing labels: Meadow Brome (5th), Annual Ryegrass (8th), Fowl Bluegrass (13th)

## Project Start

To start the project, the PRFA put together a steering committee in order to assist with the initial project set-up. The committee was made up of members of the PRFA, Ducks Unlimited, the Peace River Forage Seed Association, the BC Oil and Gas Commission, EnCana, Shell Oil, BC Ministry of

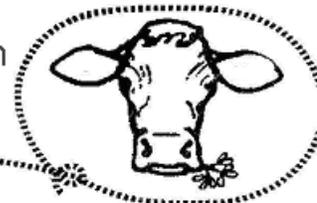
Agriculture, and BC Ministry of Forest Lands and Natural Resources. This committee came up with grass and legume species that were to be studied. Some limitations were also discovered from the oilfield companies with their policies around certain species. A few more species were added later, along with three different previously used seed mixes.

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visit our website:

[www.peaceforage.bc.ca](http://www.peaceforage.bc.ca)

Peace River Forage Association  
of British Columbia



## Site Set-Up

Although each site looks very different, we have a general set-up for all of them. There is always the main research trials, which consist of single species. Each species is repeated four times for improved accuracy. The number of species in the trial depends on the length of a berm, road, or pipeline. On the rest of the berms on a lease site or remain-

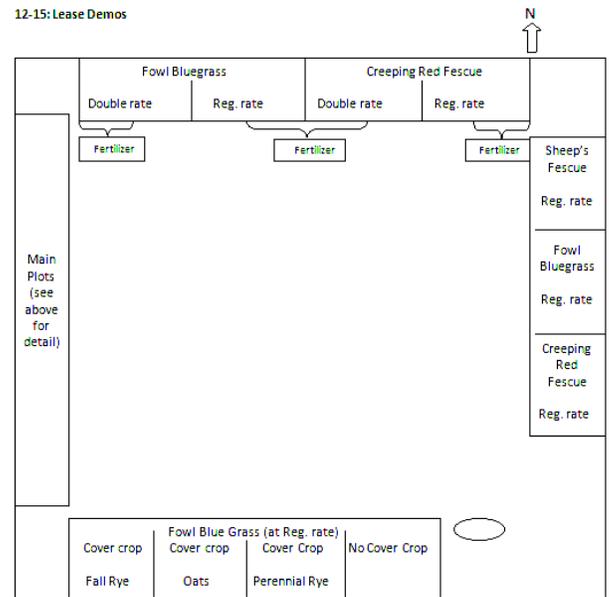
ing areas of a pipeline/road we perform demos. These are additional things that we would like to try such as different seeding practices, other seed mixes, species we don't have in trials, different seeding rates, cover crops, and fertilizer. How much of these are present also depends on each individual site. Demos are not monitored as rigorously as trials are and have more qualitative evaluation, rather than precise numbers.



Spring seeding species trials on a outside



Fall seeding demos on a berm



Map representation of a typical lease site

## Seeding/Data Collection:

Seeding was done in either fall or spring, with fall seeding usually done onto a bit of snow, not germinating until spring. The first set of data that is collected is emergence which is done the spring of seeding or the following spring in case of fall seeding. This means taking samples and counting all emerged plants in each sample. Occasionally we have a recount in the fall of that first growing year. In the second year, we do a % cover estimate to give us data on how much survived and how well it is doing in its second year.



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